Dart Aerospace	e Ltd
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W/O:			WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CHAP	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
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Part No					NCR: Yes No DQA: Date:									
	R	esolution:	Disposition): <u>`</u>	QA: N/C CI	osed:		Date: _						
NCR:		,	WORK ORDE	R NON-CONFORMA	NCE (NCF	R)								
DATE	STEP	Description of NC	Initial	Corrective Action Section	on B Sign 8			Approval	Approval					
	0.2.	Section A	Chief Eng	Action Description Chief Eng	Date	Sect	ion C	Chief Eng	QC Inspector					
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Work Ord	Work Order ID 84104 Yay-30-12 3:56:45 PM			*84104*								Page 2
Item ID: Revision ID:	D407-667-2			Accept	*N900	040	1100) *	Setup S		*N:	S1*
Item Name: Start Date: Required Date: Reference:	Crosstube Turning Detail 03/05/2012		*1* *1*		Cust Item ID: Customer:				•	Stop	*N:	S2*
Approvals:		nn:		Tooling: SPC (Y/N):	Date:			ı		Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II	D	Operation Description MORI SEIKI CNC LAT	HE LARGE	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rejec Qty		Reject Number	Insp. Stamp
120 Mori Seiki Mori Seiki CNC La	the Large	Memo 1-Turn seco 2-Blend trai	nd side as per Folio FA	not sand whole tube**:					9		Kc	. <u>12-6</u> -2
		FOLIO REV DWG REV:		n 320 grit.								

130

QC1- Inspect dimensions to dimension sheet

0.00

4-Scribe part # and batch # using vibrating stylus as per Dwg D407-667-245

Inside of Cuff(Donot engrave on outside of tube)

130

.

Memo

0.00

1 \$ KC_12-6-28

Quality Control

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W/O:			WO	RK ORDER CHANG	ES			a.		
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
							<u> </u>	<u> </u>		
Part No):	PAR #:	Fault Categ	ory:	NCR: Yes No DQA: Date: _					
	Re	esolution:	Disposition	: <u>`</u>	_ QA: N/C (Closed:		Date: _		
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NC	R)				
DATE	STEP	Description of NC		tion B		ication	Approval	Approval		
DATE	SIEF	- Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat			Chief Eng	QC Inspector	
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Work Order ID 84104 Page 4 May-30-12 3:56:45 PM Item ID: D407-667-205TRN Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail **Start Date:** 03/05/2012 Start Qty: 1.00 **Cust Item ID: Required Date:** 17/05/2012 **Req'd Qty:** 1.00 **Customer:** Reference: Run Process Plan: Date: Approvals: Tooling: Date: Date: __ ____ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Insp. Accept Reject Reject Work Center ID Description Number Stamp **Run Hours** Code Qty Qty 160 Onversion Coat 0.00 *160* 0.00 Memo Quality Control 170 0.00 Packaging *170* Packaging 0.00 Memo 12-7-11 Packaging Identify and stock in kanban rackLocation: 180 QC21- Final Inspection - Work Order Release 0.00

0.00

Memo

120

Quality Control

Wr2 15/02/15

Dail Aei	uspace	Liu							•
W/O:			WC	RK ORDER CHANGE	S			3	,
DATE	STEP	PRO	CEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _	
	R	esolution:	Dispositio	n: <u>`</u>	QA: N/C C	osed:		Date: _	
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NCF	?)			
5475	0.750	Description of NC		Corrective Action Section		Verifi	cation	Approval Chief Eng	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign and Date	k Sect	ion C		QC Inspector
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Item ID: D407-667-205TRN

Required Date: 17/05/2012

Accept

N900040100

Setup Start

Item Name: **Start Date:**

Revision ID:

Crosstube Turning Detail

03/05/2012 Start Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: ____ Date:

Date: ____

Tooling: SPC (Y/N): Date:

Date:

Sequence ID/ Work Center ID Operation Description

Reg'd Oty: 1.00

Set Up/ **Run Hours** Tool ID

Tool # Plan Accept Code Qty

Qty

Run

Reject Reject Number

Insp. Stamp

140

140

QC

Quality Control

Memo

QC8- Inspect parts - second check

0.00

0.00

145

145

Crosstubes

Memo

0.00

0.00

Crosstubes

Grind off circumferential machining marks longitudinally.

IW 12-7-9

150

Crosstubes Chemical Conversion

0.00

150

HandFXtube

Memo

0.00

Hand Finishing Crosstubes

Ensure no sand is in the tube before alodine.

Tend 1- Presour Wash. 1. 2. Acid Etal.

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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			}								

Part No:	_ PAR #:	Fault Category:	 NCR: Yes No	DQA:	Date:	
Resolution:		Disposition:	 QA: N/C Closed	i:	Date:	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B	Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				
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May-30-12 3:56:49 PM

Work Order ID: 84104

84104

Parent Item: Parent Item Name: Crosstube Turning Detail

D407-667-205TRN

D407-667-205TRN

Start Date: 03/05/2012

Required Date: 17/05/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 Removed polish EC verified by: DD IPP Rev:C 08-08-19 revE as per dwg DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6011-115		Manufactured	No	 		120	Each	45.0000	1	1			
D6011_11	5								**				

Crosstube Material

Location	Loc Qty	Loc Code	
FG	26		
(69802)	26		man 12/06/20
LG	19		
65180	1		
67798	18		

W/O:			WORK ORDER CHANGES									
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Ye	s No DC	A:					
	R	esolution:	Dispositio	n: <u>'</u>	_ QA: N/C	Closed:		Date: _				
NCR:			WORK ORD	ER NON-CONFORMA	ANCE (NO	CR)		_				
DATE	STEP	Description of NC Section A	cription of NC Section A Corrective A Initial Chief Eng		Section B ription Sign & Date		ication tion C	Approval Chief Eng	Approval QC inspector			
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		4.										
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DART AEROSPACE LTD	Work Order:	84104
Description: Crosstube Assembly	Part Number:	D407-667-245
Inspection Dwg: D407-667-245 Rev: F		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X	First Article	Prototype
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	nspection Sheet awing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	2.490	+0.005/-0.000	2.493	/		VERN	CNC-08
	1.832	+0.005/-0.000	1.836	1,			
	1.838	+0.005/-0.000	1.843	1/		1	
	1.892	+0.005/-0.000	1.896	1,.			
	2.052	+0.005/-0.000	2.057	1/			
	2.206	+0.005/-0.000	2.211				
V	2.521	+0.005/-0.000	2.526				:-
SIDE	2.633	+0.005/-0.000	2.633	/		*	
0,	4.10	+/-0.030	4.10	1		1	
	4.978	+/-0.030	4.978				
	2.040	+0.000/-0.010	2,032	المستقسسية المستوا			
	0.125	+/-0.010	.129			1	17
	R0.063	+/-0.010	067			Rb	
	R0.500	+/-0.010	.500			R6	
	2.490	+0.005/-0.000	2.492.			VERN	CNC-08
	1.832	+0.005/-0.000	1.833			1	
	1.838	+0.005/-0.000	1.837				1
	1.892	+0.005/-0.000	1.892	//			
	2.052	+0.005/-0.000	2.052				
	2.206	+0.005/-0.000	2211				
ω	2.521	+0.005/-0.000	2-525				
SIDE	2.633	+0.005/-0.000	2.637				
ေ	4.10	+/-0.030	4.10				
	4.978	+/-0.030	4.978				
	2.040	+0.000/-0.010	2,030				
	0.125	+/-0.010	.125			7	4
	R0.063	+/-0.010	-067			RG	
	R0.500	+/-0.010	.500			RL	
	112.91	+/-0.020	12.915	/		tople	16-25
Ma	asured by:	malle A	udited by	$\langle \langle \rangle \rangle$			

Measured by:	mon. Kc	Audited by:	Prototype Approval:	N/A
Date:	12/66/27	Date: 12-7-4	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	04.04.21	New Issue (P/O D407-667-205)	KJ/RF	
В	06.03.09	Dwg Rev updated	KJ/JLM	-
С	06.03.30	Tolerance revised for 4.978 dimension	KJ/JLM	
D	07.02.19	Dwg Rev updated	KJ/JLM .	11
Е	09.05.20	Dwg Rev updated	KJ 🕏	l XX

W/O:			W	ORK ORDER C	HANGES					
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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					t .					
Part No		PAR #:	Fault Cat	egory:	NC	R: Yes	No DQA	٨:	_ Date: _	
	R	esolution:	Dispositi	on: <u>'</u>	QA	: N/C Clo	sed:		Date:	
NCR:		V	VORK ORI	DER NON-CONF	ORMANCE	(NCR)			
DATE	STEP	Description of NC	Description of NC			on B		ation	Approval	Approvai
DATE	SIEP	Section A	Initial Chief Eng	Action Desc Chief Eng		Sign & Date	Section	Section C	Chief Eng	QC Inspector
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Item	QTY -245	PART NUMBER	DESCRIPTION
1	х	D407-667-245	CROSSTUBE ASSEMBLY (407 HIGH AFT)
2	1	D6011-115	CROSSTUBE
3	2	D2856-400-773	ABRASION STRIP
4	2	D2873-043	NUT PLATE
5	2	D2873-045	NUT PLATE
6	1	D2894-1	SUPPORT
7	2	D3190-1	CHAFING SHIELD
8	2	D3595-063-430	RUBBER CUSHION
9	14	MS20601AD4W8	RIVET (OR NAS9302B-4-8)
10	4	MS21920-22	CLAMP
11	2	MS21920-25	CLAMP (OR MS21920-24)
12	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC, 299-947- 100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

- 1) MATERIAL: MANUFACTURED FROM D6011-115 FINISHED LENGTH = 112.91±0.020
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART OSI 005 4 2
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D407-667-245" AND BATCH NUMBER ON
- INSIDE OF CUFF USING VIBRATING STYLUS. WEIGHT: 27.7 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE.
 RUN-OFF PART BLEND OUT EDGE LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 6 PASSES. MAXIMUM TUBE FLATTENING DUE TO
- 10) BEND PROGRESSIVELT THIT AMAINMENT OF STREET OF CROSSTUBE PER QSI 038.

 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.03* TO 0.06* THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO
- 13) INSTALL MS21920-25 CLAMPS WITH D3595-063-430 RUBBER CUSHIONS TO SECURE D2894-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE
- NOTE: MS 21920-24 CLAMPS CAN BE USED TO ACCOMMODATE VARYING DIAMETERS.
 ENSURE THERE IS A MINIMUM OF 1.5 THREADS IN SAFETY ON THE NUTS.

 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE
- OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE, PER OSI 035.
- 16) INSTALL D3190-1 CHAFING SHIELDS SO THAT OVERLAP IS ON BOTTOM SIDE OF CROSSTUBE OPPOSITE D2894-1 SUPPORT.
- 17) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COFF SUBJECT TO AMENDMENT WITHOUT NOTICE 12/05/31

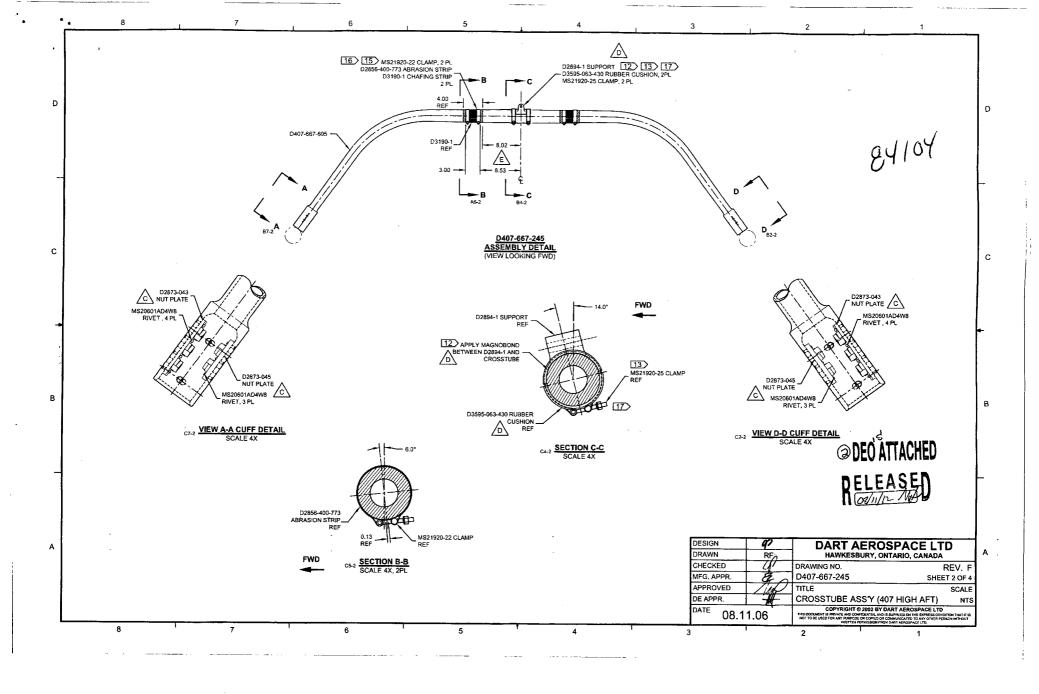
ODEO ATTACHED

F	REFORMAT NOTES TO NEW STANDARDS (ZN B8-1); RELOCATED FLAG # 6 (ZN A8-3) PER NOR 210; REMOVED REF. & ADD TOLERANCES (ZN C6-3, C4-3 & D2-3)	RF	08.11.06
E	8.02 AND 8.53 WERE 8.40 AND 8.90 (ZN D5-2); REORGANIZED VIEWS AND REFORMATED DRAWING TO CURRENT STANDARDS. REASONS: CLAMPS MOVED 0.375 TOWARD CL TO ELIMINATE INTERFERENCE WITH AIRCRAFT MOUNTS. REFERENCE: PAR#08-21 AND ECN#1225	мв	08.07.24
D	ADD VIEW FOR OEM SKID HOLES, ROTATE ORIENTATION OF CLAMPS SECTION F-F, REMOVE -851 ABRASION STRIP, ADD MAGNOBOND 6398, ADD CUSHION	РН	07.02.07
С	ADD HOLES AND NUT PLATES FOR COMPATIBILITY WITH BHT/AA SKIDTUBES	PH	05.07.26
В	ADD CHAFING SHIELD	CP	03.05.21
A	NEW ISSUE	CP	02.05.13
REV.	DESCRIPTION	RY	DATE

DESIGN	a?	DART AEROSPA	CELTD			
DRAWN	RF ₂	HAWKESBURY, ONTARIO, CANADA				
CHECKED	4	DRAWING NO.	REV. F			
MFG. APPR.	80	D407-667-245	SHEET 1 OF 4			
APPROVED	111	TITLE	SCALE			
DE APPR.	74	CROSSTUBE ASS'Y (407 HIG	HAFT) NTS			
DATE 08.1	1.06	COPYRIGHT © 2002 BY DART AERO	THE EXPRESS CONDITION THAT IT IS			

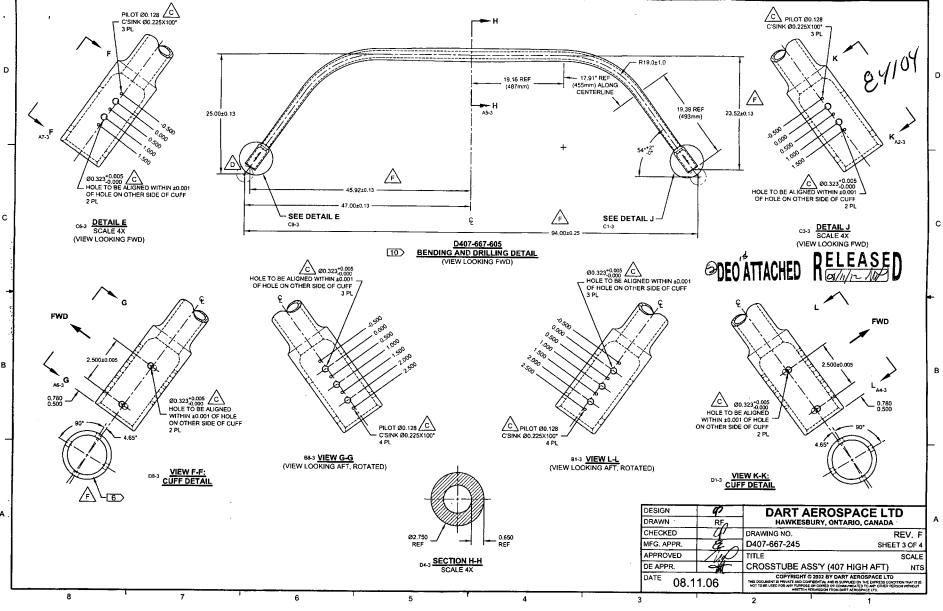
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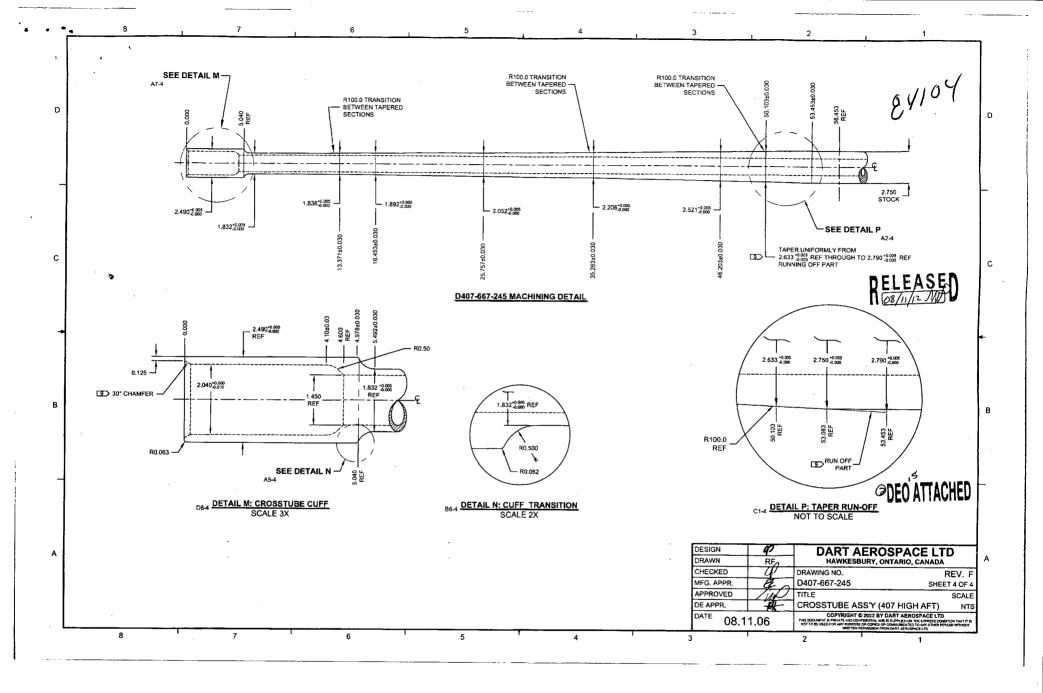


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DATE	STEP	Description of NC			tion B	Verific	cation	Approval	Approval
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	Re	esolution:	Disposition	: '	QA: N/C Clo	sed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCR)			
DATE	CTED	Description of NC		Section B		cation	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Chief Eng	QC Inspector
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ŗ	DRAWING NO.	TITLE		REV. F	DADTAE	DOODAGELT	D				
-						ROSPACE LT		D .	SHEE	T NO.	SCALE
L	D407-667-245	CROSSTUB	E ASSY (407	HIGH AFT)	ENGINE	ERING ORDER	₹ D407-6	67-245-F-1	SHEET	1 OF 2	NTS
- [1	DRAWN		CHECKED	a	MFG, APPR.	Ø		10			NIS
T.	0475 44.04	00			1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		APPROVED	140	DE APPR.	A	
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PURPOSE:

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

IS:

Item	Qty -245	Part Number	Description
3	0	D2856-400-773	ABRASION STRIP

WAS:

3	2	D2856-400-773	ABRASION STRIP

NOTES 2 AND 15, SHEET 1 ARE AMENDED AS FOLLOWS:

IS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND PAINT OUTSIDE PER DART QSI 005 4.2
REMOVE MASKING AND APPLY CLEAR COAT

15) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3190-1 CHAFING SHIELDS AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3190-1 CHAFING SHIELDS ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

WAS:

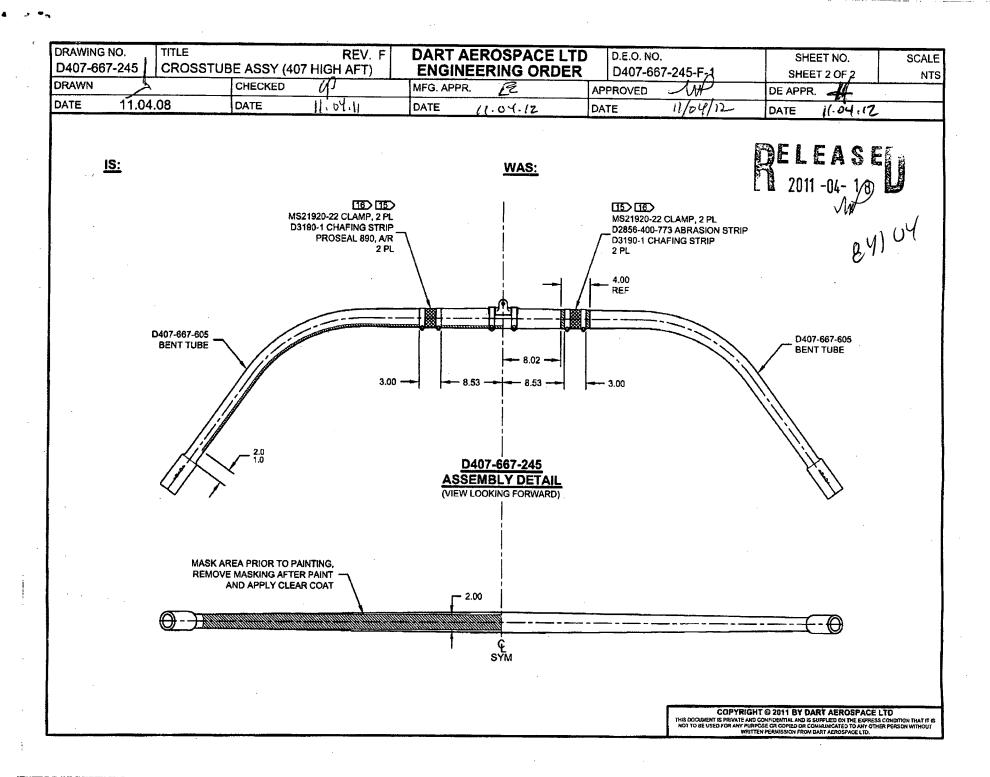
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
 PAINT OUTSIDE PER DART QSI 005 4.2
- 15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.

24104



W/O:		WORK ORDER CHANGES PROCEDURE CHANGE By Date Qty Approval Chief Eng / Prod Mgr QC Inspector						
DATE	STEP		PROCEDURE CHANGE	Ву	Date	Qty	Chief Eng /	Approval QC Inspector
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Part No	:	PAR	#: Fault Category:	NCR: Ye	s No DQ	A :	Date: _	
	F	Resolution:	Disposition:	QA: N/C	Closed:		Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B				Approval		
DATE	STEP	Section A	Initial Action Description Chief Eng Chief Eng		Sign & Date	Verification Section C	Approval Chief Eng	QC Inspector		
								f		
NOTE: D	ate & initial	all antrias								



Dart A	\erospace	Ltd
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W/O:		WORK ORDER C	WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	Ву	By Date		Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No	<u> </u>	PAR #· Fault Category:	NCR: Yes	No DO	Δ•	Date:	1		

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NCR:	ICR:		WORK ORDER NON-CONFORMANCE (NCR)						
		Description of NC		Corrective Action Section		Verification	Approval	Approvai	
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DRAWING NO.	TITLE		REV. F	DART AE	ROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D407-667-245	CROSSTU	BE ASS'Y (4	07 HIGH AFT)	ENGINE	ERING ORDER	D407-667-245-F-2	SHEET 1 OF	NTS
DRAWN	P	CHECKED	ASS	MFG. APPR.	E	APPROVED W	DE APPR.	
DATE 11	09. 07	DATE	11.09.19	DATE	11-09-19	DATE 11.09.19	DATE 11.09.19	

PURPOSE:

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

CHANGE:

IS:

Item	Qty -245	Part Number	Description
12	A/R	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

WAS:

12	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II. CLASS 2 ADHESIVE)

NOTE 12 & 17, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

84104



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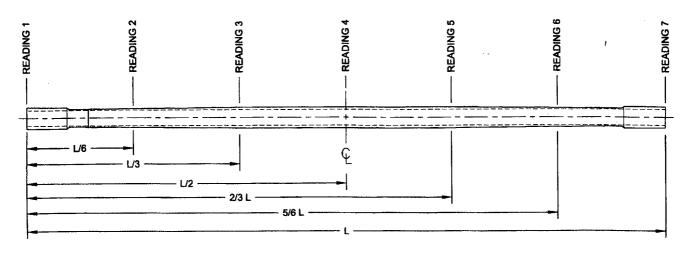
W/O:		WORK ORDER CHANGE	S			•	. P
DATE	STEP	PROCEDURE CHANGE	Ву	Date -	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector
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Part No:	PAR #:	Fault Category	·	NCR: Yes	No	DQA:	Date:	
Resolution	on:	Disposition: _		QA: N/C C	losed	:	Date:	_

NCR:									
	STED 3 Description of NC			Corrective Action Section B		Verification	Approval	Approval	
DATE	STEP	\$	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto
.·									
				**					

DART AEROSPACE LTD	Work Order:	
Description: Crosstube Assembly	Part Number:	D407-667-245
Inspection Dwg: D407-667-245 Rev: F		Page 2 of 2

WALL THICKNESS MEASUREMENT



	WALL	THICKNESS I	MEASUREMEN	IT (IN)	Deviation	
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE
READING 1 L= 0"	. 239.	.232.	,231	. 232	.00%	
READING 2 L= \6.8	.229	. 257.	-263	. 237.	.007	
READING 3 L= 37.62	.407.	.436.	,434	.416.	.029	
READING 4 L= 56.437	.665	.654	.672	.672	.018	0.075"
READING 5	406	. 39 3	.432.	.450	. 057	
READING 6 L= 1881	239	. 237	. 255	1270	.639	
READING 7	.234	.233	. 249	.263	,050	

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Actual Block Thickness:

Sitescan 250 Measured Thickness:

•		\sim		
Measured by:	KC	Audited by:		Preliminary Approval:
Date:	12-7-04	Date: 12	-7-4	Date:

Rev	Date	Change	Revised by	Approved
A	04.04.21	New Issue (P/O D407-667-205)	KJ/RF	
В	06.03.09	Dwg Rev updated	KJ/JLM	
C	06.03.30	Tolerance revised for 4.978 dimension	KJ/JLM	
D	07.02.19	Dwg Rev updated	KJ/JLM	
E	09.05.20	Dwg Rev updated	KJ	10
F	12.06.04	Wall thickness form added	KJ KJ	M
			(7)	